



93184-00007

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re Patent Application of:  
KENNETH ABEND, ET AL.

Serial No.: 10/801,495

Confirmation No.: 1813

Filed: March 16, 2004

For: INCREASED SENSITIVITY FOR 4-D  
ULTRASOUND IMAGING AND FOR  
4-D DOPPLER ULTRASOUND IMAGING

Group Art Unit: 3737

Examiner: To Be Assigned

I hereby certify that this correspondence and/or  
fee is being deposited with the United States  
Postal Service as First Class Mail in an envelope  
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Commissioner for Patents, P.O. Box 1450,  
Alexandria, VA 22313-1450  
on 6/10/05  
(Date of Deposit)

Barbara Kiselica 6/10/05  
(Signature) (Date)

X: Barbara Kiselica  
Printed Name

**Mail Stop Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, applicant and his attorney respectfully request that the following patents and publications be made of record in the official United States Patent and Trademark Office file relating to the above-identified application. The citation of the following patents and publications should not be construed as an admission that they constitute prior art with respect to the present invention.

U.S. Patent Nos.

5,148,810	5,922,962
5,261,408	5,928,151
5,291,892	5,971,927
5,409,010	6,066,096
5,546,807	6,135,971
5,623,930	6,148,095
5,701,898	6,238,346
5,808,962	6,524,253
5,840,033	6,682,483
5,911,692	

Non-Patent Literature Documents

C. KASAI, K. NAMEKAWA, A. KOYANO and R. OMOTO "Real-Time Two Dimensional Blood Imaging Using An Autocorrelation Technique", IEEE Transactions On Sonics and Ultrasonics, Vol. SU-32, no.3, pp 458-464, May 1985.

K. FERRARA and G. DeANGELIS, "Color Flow Mapping", Ultrasound in Medicine and Biology", Vol. 23, no. 2, pp 321-345, March 1997.

T. BUCK, et al., "Flow Quantification In Valvular Heart Disease Based On The Integral Of Backscattered Acoustic Power Using Doppler Ultrasound", PROC. IEEE, Vol. 88, no. 3 pp 307-330, March 2000.

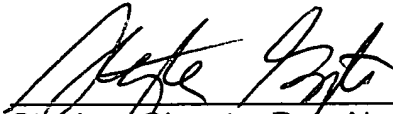
All of the above-listed references are in the English language. In such circumstances, comments concerning the relevance of the foregoing references are considered unnecessary.

In order to facilitate the Examiner's citation of the patents and publications listed above, applicant's attorney has completed United States Patent and Trademark Office Form PTO/SB/08 (formerly PTO-1449). The completed Form is attached hereto for the Examiner's convenience.

No fees are believed to be due in connection with the submission of this Information Disclosure Statement. If any such fees are due, the Examiner is hereby authorized to charge them to Deposit Account No. 501402.

Respectfully Submitted,

McCARTER & ENGLISH, LLP

A handwritten signature in black ink, appearing to read "Stephen Gigante", is written over a horizontal line.

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NWK2: 1317873.01

**Complete if Known**

Application Number	10/801,495
Filing Date	March 16, 2004
First Named Inventor	Kenneth Abend
Art Unit	3737
Examiner Name	TBA
Attorney Docket Number	93184/00007

Sheet	1	of	2
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Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known) <sup>2</sup>			
		US-	5,148,810	09/1992	Maslak , et al.	
		US-	5,261,408	11/1993	Maslak, et al.	
		US-	5,291,892	03/1994	O'Donnell	
		US-	5,409,010	04/1995	Beach , et al.	
		US-	5,546,807	08/1996	Oxaal, et al.	
		US-	5,623,930	04/1997	Wright, et al.	
		US-	5,701,898	12/1997	Adam, et al.	
		US-	5,808,962	09/1998	Steinberg, et al.	
		US-	5,840,033	11/1998	Takeuchi	
		US-	5,911,692	06/1999	Hussain, et al.	
		US-	5,922,962	07/1999	Israk, et al.	
		US-	5,928,151	07/1999	Hossack, et al.	
		US-	5,971,927	10/1999	Mine	
		US-	6,066,096	05/2000	Smith, et. al.	
		US-	6,135,971	10/2000	Hutchinson, et al.	
		US-	6,148,095	11/2000	Prause et al.	
		US-	6,238,346	5/2000	Mason	
		US-	6,524,253	2/2003	Abend	
		US-	6,682,483	1/2004	Abend	
		US-				

[illegible]

Date	
Considered	

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>			<b>Complete if Known</b>		
			Application Number	10/801,495	
			Filing Date	March 16, 2004	
			First Named Inventor	Kenneth Abend	
			Art Unit	3737	
			Examiner Name	TBA	
Sheet	2	of	2	Attorney Docket Number	93184/00007

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		C. KASAI, K. NAMEKAWA, A. KOYANO and R.OMOTO, "Real-Time Two Dimensional Blood Imaging Using An Autocorrelation Technique", IEEE Transactions On Sonics and Ultrasonics, Vol. SU-32, no. 3, pp 458-464, May 1985.	
		K. FERRARA and G. DE ANGELIS, "Color Flow Mapping", Ultrasound in Medicine and Biology, Vol. 23, no. 2, pp 321-345, March 1997.	
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Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.  
 This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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